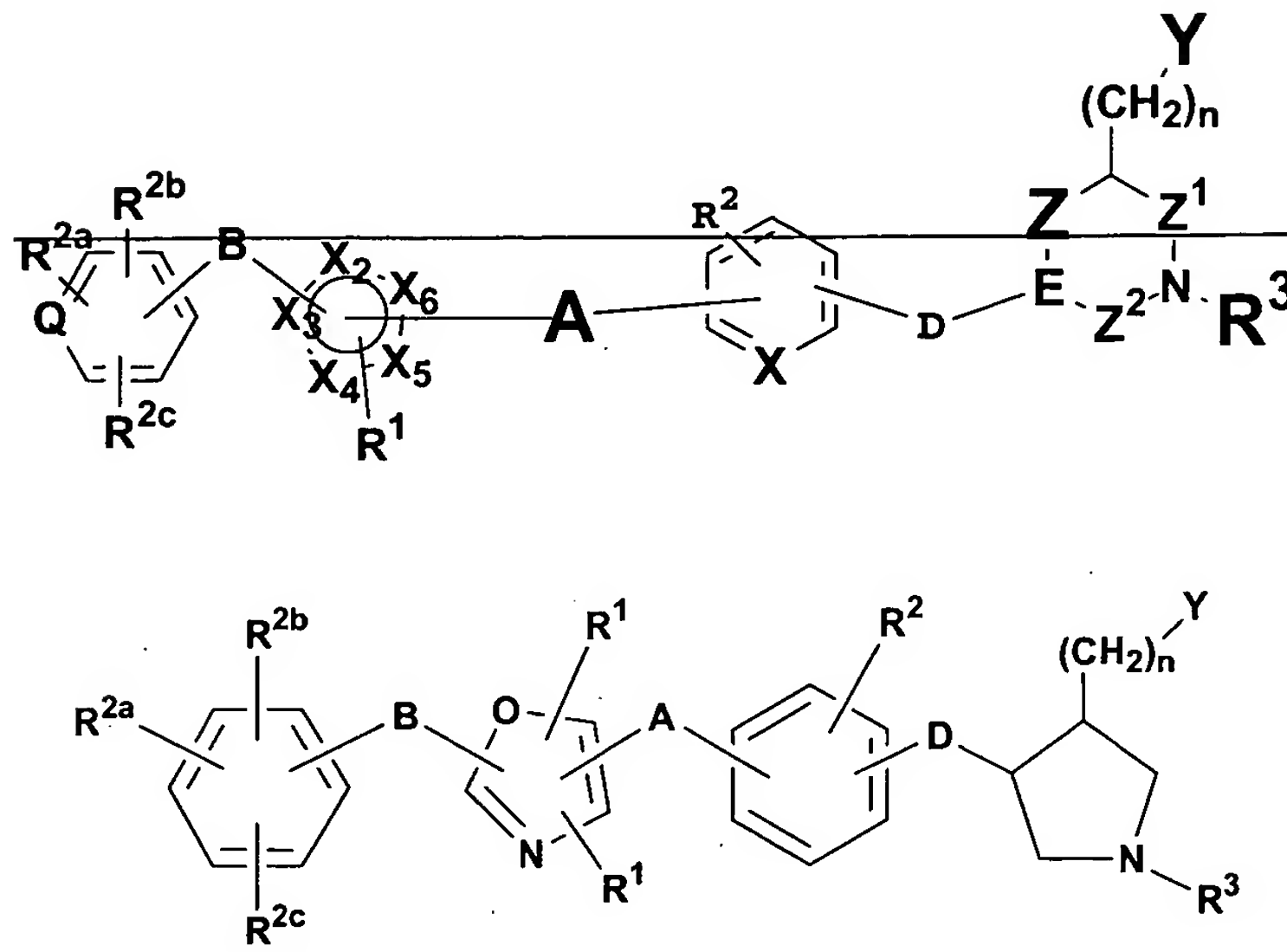


AMENDMENTS TO CLAIMS

Claim 1. (Currently Amended) A compound having the structure



wherein Z^1 is $(CH_2)_q$ or $C=O[[:]]$

Z^2 is $(CH_2)_p$ or $C=O[[:]]$

D is $-CH=$ or $C=O$ or $(CH_2)_m$ where m is 0, 1, 2 or 3;

$n = 0, 1$ or 2 ; $p = 1$ or 2 ; $q = 0, 1$ or 2 ;

Q is C or $N[[:]]$

A is $(CH_2)_x$ where x is 1 to 5; or A is $(CH_2)_{x^1}$, where x^1 is 1 to 5, with an alkenyl bond or an alkynyl bond embedded anywhere in the chain; or A is $-(CH_2)_{x^2}-O-(CH_2)_{x^3}-$ where x^2 is 0 to 5 and x^3 is 0 to 5, provided that at least one of x^2 and x^3 is other than 0;

B is a bond or is $(CH_2)_{x^4}$ where x^4 is 1 to 5;

X is CH or $N[[:]]$

X_2 is C, N, O or $S[[:]]$

X_3 is C, N, O or $S[[:]]$

X_4 is C, N, O or $S[[:]]$

X_5 is C, N, O or $S[[:]]$

~~X₆ is C, N, O or S[;]~~

~~provided that at least one of X₂, X₃, X₄, X₅ and X₆ is N; and at least one of X₂, X₃, X₄, X₅ and X₆ is~~
~~∈[;]~~

R¹ is H or alkyl;

R² is H, alkyl, alkoxy, halogen, amino or substituted amino;

R^{2a}, R^{2b} and R^{2c} may be the same or different and are selected from H, alkyl, alkoxy, halogen, amino, substituted amino or cyano;

R³ is selected from H, ~~alkyl[;]~~ arylalkyl, aryloxy carbonyl, alkyloxy carbonyl, alkynyloxy carbonyl, alkenyloxy carbonyl, ~~arylecarbonyl[;]~~ alkylcarbonyl, aryl, heteroaryl, cycloheteroalkyl[;], heteroarylecarbonyl[;], heteroaryl[-]heteroarylalkyl[;], ~~alkylecarbonylamino[;]~~ heteroaryloxy carbonyl, cycloheteroalkyloxy carbonyl, ~~heteroarylalkyl[;]~~ aminocarbonyl[;], substituted aminocarbonyl, alkylaminocarbonyl, arylaminocarbonyl, ~~heteroarylalkenyl[;]~~-cycloheteroalkyl[-]heteroarylalkyl[;], hydroxyalkyl[;], alkoxy[;], alkoxyaryloxy carbonyl, arylalkyloxy carbonyl, alkylaryloxy carbonyl, ~~arylheteroarylalkyl[;]~~ arylalkylarylalkyl, aryloxyarylalkyl, haloalkoxyaryloxy carbonyl, alkoxy carbonylaryloxy carbonyl, aryloxyaryloxy carbonyl, ~~arylsulfinylarylecarbonyl[;]~~ arylthioarylecarbonyl[;], alkoxy carbonylaryloxy carbonyl, arylalkenyloxy carbonyl, heteroaryloxyarylalkyl, ~~aryloxyarylecarbonyl[;]~~ ~~arylecarbonylamino[;]~~ heteroarylecarbonylamino[;], alkoxy carbonylamino[;], aryloxy carbonylamino[;], heteroaryloxy carbonylamino[;], heteroaryl[-]heteroarylecarbonyl[;], alkylsulfonyl, alkenylsulfonyl, heteroaryloxy carbonyl[;], cycloheteroalkyloxy carbonyl[;], heteroarylalkyl[;], aminocarbonyl[;], substituted aminocarbonyl[;], alkylaminocarbonyl[;], arylaminocarbonyl[;], heteroarylalkenyl[;], cycloheteroalkyl[-]heteroarylalkyl[;], hydroxyalkyl[;], alkoxy[;], alkoxyaryloxy carbonyl[;], arylalkyloxy carbonyl[;], alkylaryloxy carbonyl[;], arylheteroarylalkyl[;], arylalkylarylalkyl[;], aryloxyarylalkyl[;], haloalkoxyaryloxy carbonyl[;], alkoxy carbonylaryloxy carbonyl[;], aryloxyaryloxy carbonyl[;], arylsulfinylarylecarbonyl[;], arylthioarylecarbonyl[;], alkoxy carbonylaryloxy carbonyl[;], arylalkenyloxy carbonyl[;], heteroaryloxyarylalkyl[;], aryloxyarylecarbonyl[;], aryloxyarylalkyloxy carbonyl, arylalkenyloxy carbonyl[;], arylalkylcarbonyl, aryloxyalkyloxy carbonyl, arylalkylsulfonyl, ~~arylthiocarbonyl[;]~~ arylalkenylsulfonyl, heteroarylsulfonyl, arylsulfonyl, alkoxyarylalkyl, heteroarylalkoxy carbonyl, arylheteroarylalkyl, ~~alkoxyarylecarbonyl[;]~~ ~~aryloxyheteroarylalkyl[;]~~ heteroarylalkyloxyarylalkyl,

arylarylalkyl, arylalkenylarylalkyl, arylalkoxyarylalkyl, arylcarbonylarylalkyl, alkylaryloxyarylalkyl, ~~arylalkoxycarbonylheteroarylalkyl[[,]]~~ heteroarylarylalkyl, ~~arylecarbonylheteroarylalkyl[[,]]~~ heteroaryloxyarylalkyl, ~~arylalkenylheteroarylalkyl[[,]]~~ arylaminoarylalkyl, aminocarbonylarylalkyl;

~~E is CH or N[[,]]~~

~~Z is (CH₂)_x⁵ where x⁵ is 0 (a single or a double bond), 1 or 2, or Z is (CH₂)_x⁶ where x⁶ is 2 to 5, where (CH₂)_x⁶ includes an alkenyl (C=C) bond embedded within the chain or Z is (CH₂)_x⁷ O- (CH₂)_x⁸ where x⁷ is 0 to 4 and x⁸ is 0 to 4[[,]]~~

(CH₂)_x, (CH₂)_x¹, (CH₂)_x², (CH₂)_x³, (CH₂)_x⁴, ~~(CH₂)_x⁵[[,]] (CH₂)_x⁶[[,]] (CH₂)_x⁷[[,]] (CH₂)_x⁸[[,]]~~ (CH₂)_m, and (CH₂)_n[[,]] ~~(CH₂)_p and (CH₂)_q~~ may be optionally substituted;

Y is CO₂R⁴ where R⁴ is H or alkyl, or a prodrug ester, or Y is a C-linked 1-tetrazole, a phosphinic acid of the structure P(O)(OR^{4a})R⁵ where R^{4a} is H or a prodrug ester, R⁵ is alkyl or aryl, or a phosphonic acid of the structure P(O)(OR^{4a})₂;

including all stereoisomers thereof, prodrug esters thereof, and pharmaceutically acceptable salts thereof.

Claim 2. (Cancelled).

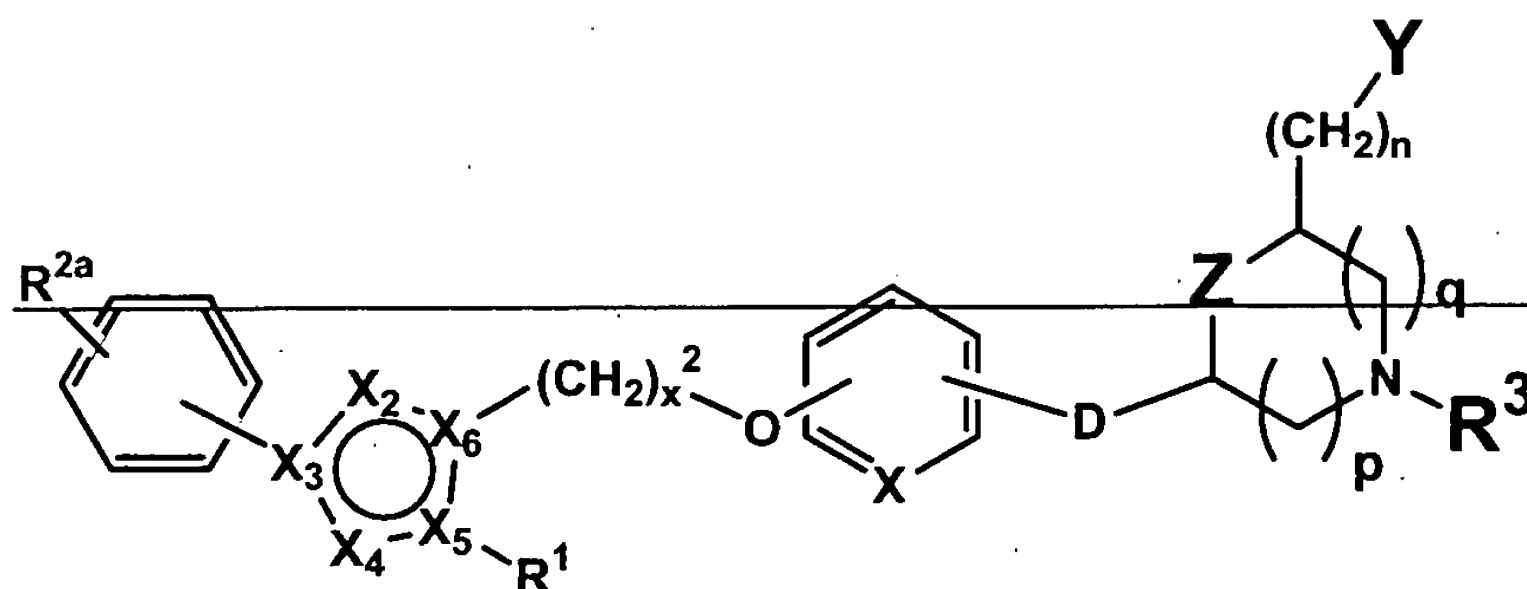
Claim 3. (Original) The compound as defined in Claim 1 wherein A is -(CH₂)_x²-O-.

Claim 4. (Cancelled).

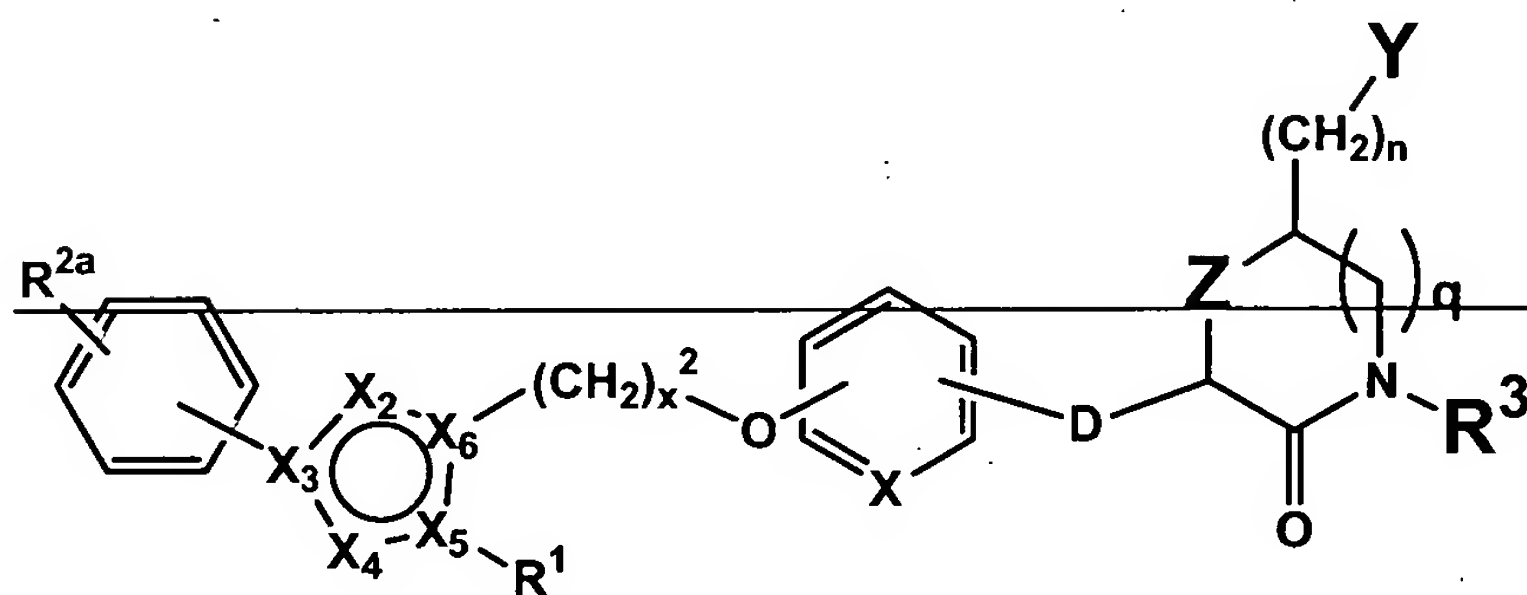
Claim 5. (Original) The compound as defined in Claim 1 wherein B is a bond.

Claims 6 to 9. (Cancelled)

Claim 10. (Currently Amended) The compound as defined in Claim 1 ~~having the structure~~ wherein B is a bond and A is -(CH₂)_x²-O-.

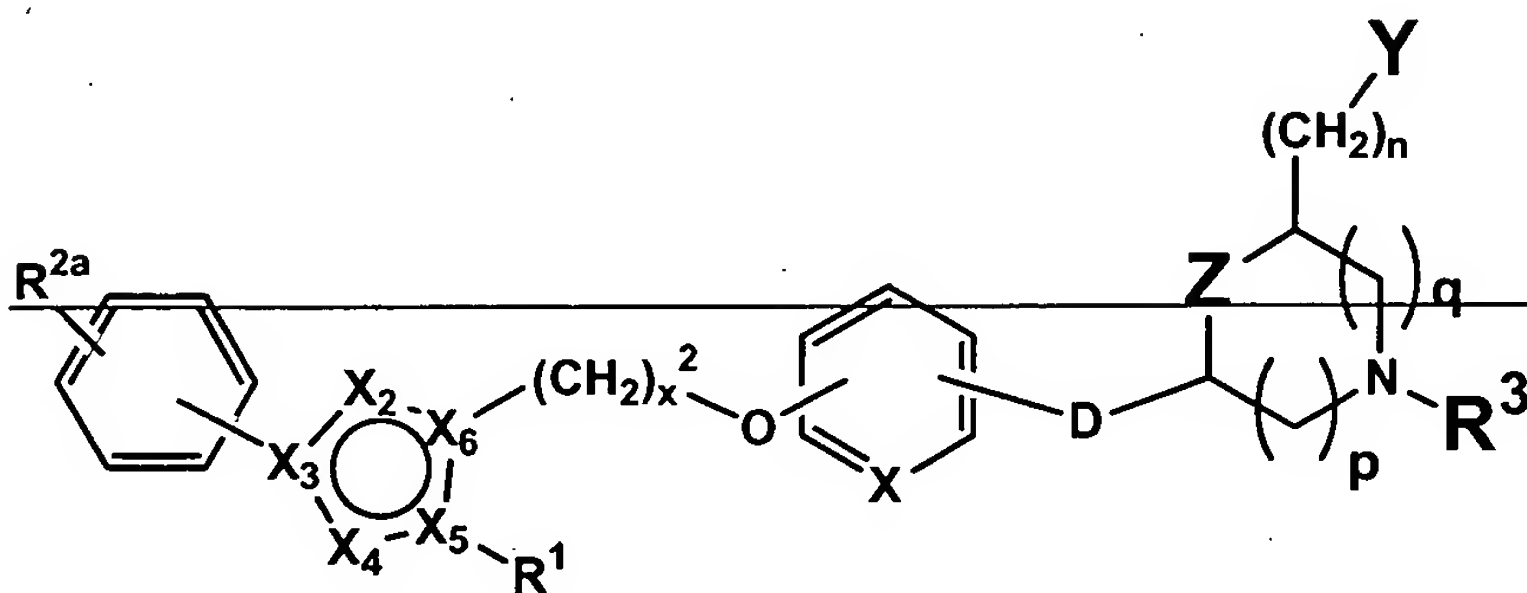


~~where X is CH[.]~~



~~where X is CH, q = 0, and Z is a single bond[.]~~

Claim 11. (Currently Amended) The compound as defined in Claim 1 ~~having the structure~~



wherein B is a bond;

A is $-(CH_2)_x-O-$;

R¹ is alkyl;

R^{2a} is alkyl, alkoxy or halogen;

x^2 is 1 to 3;

D is $-\text{CH}=\text{}$ or $(\text{CH}_2)_m$ where m is 0 or $(\text{CH}_2)_m$ is CH_2 or CH-alkyl ;

~~X is $\text{CH}[[;]]$~~

~~X_2, X_3, X_4, X_5 , and X_6 represent a total of 1, 2 or 3 nitrogens[[;]]~~

$(\text{CH}_2)_n$ is a bond or CH_2 ;

~~p is 1[[;]]~~

~~Z is a bond[[;]]~~

~~q is 1[[;]]~~

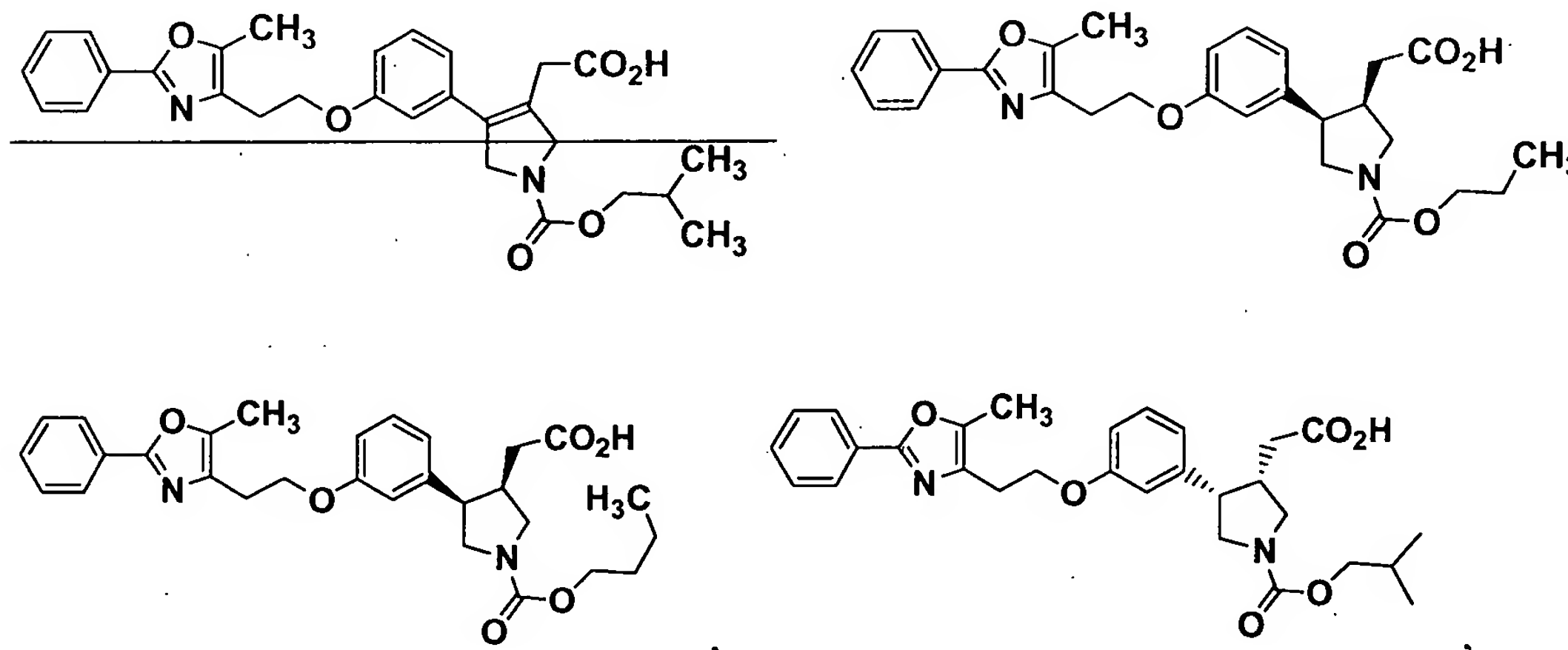
R^3 is alkoxy carbonyl, aryl, heteroaryl, aryloxy carbonyl or arylalkyl;

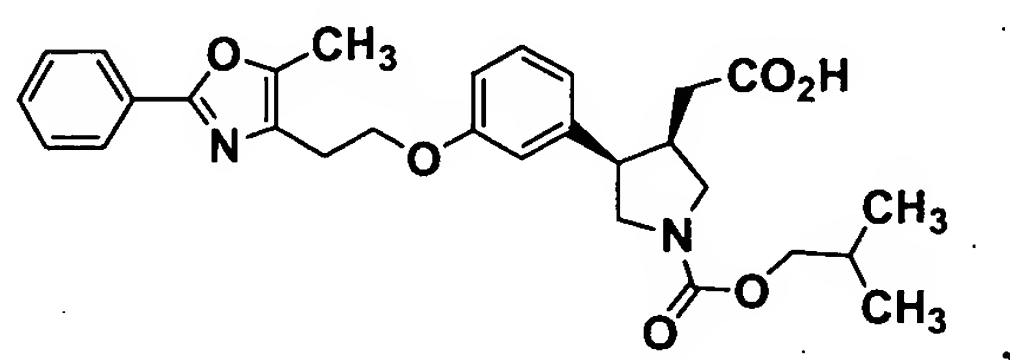
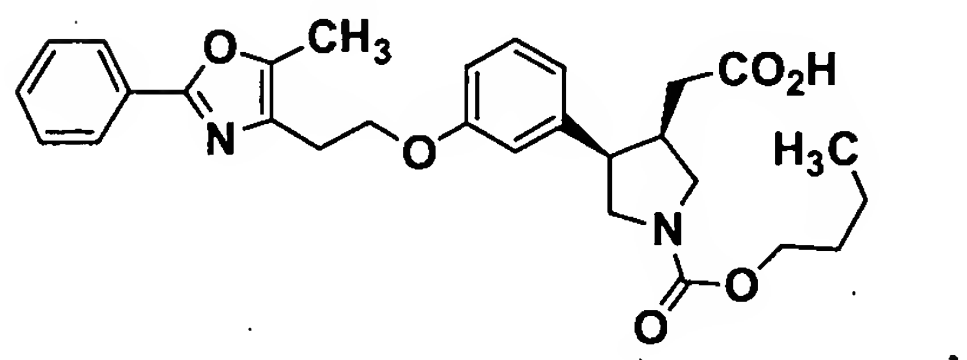
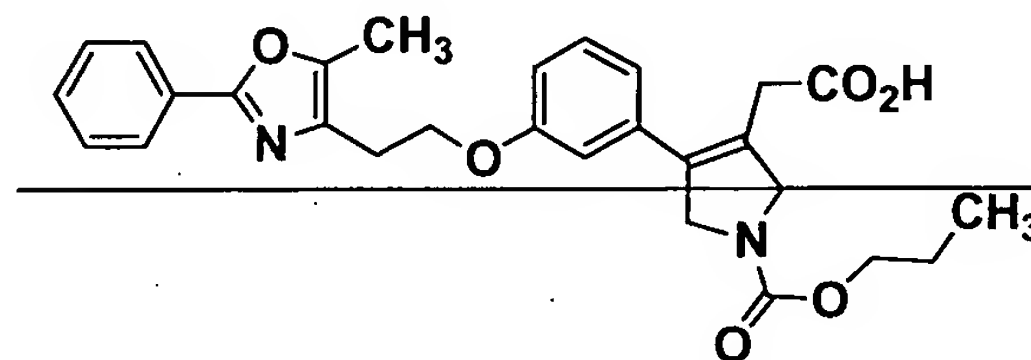
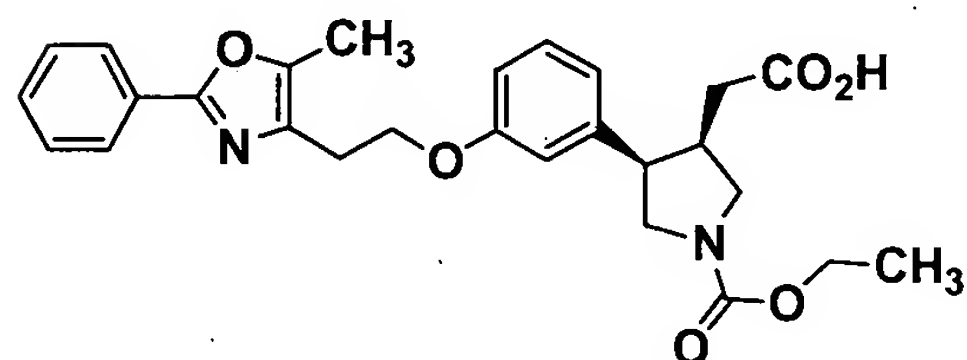
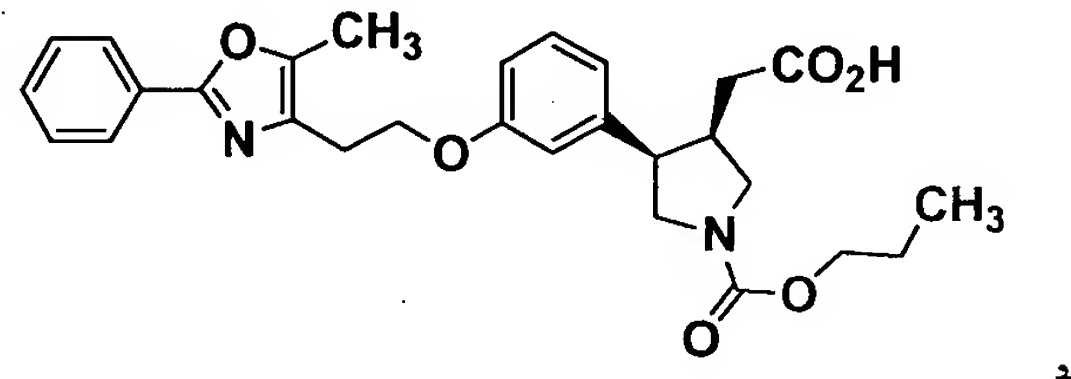
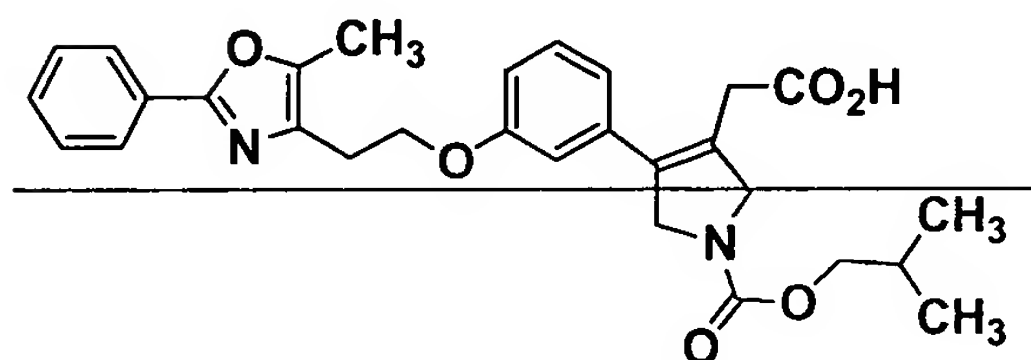
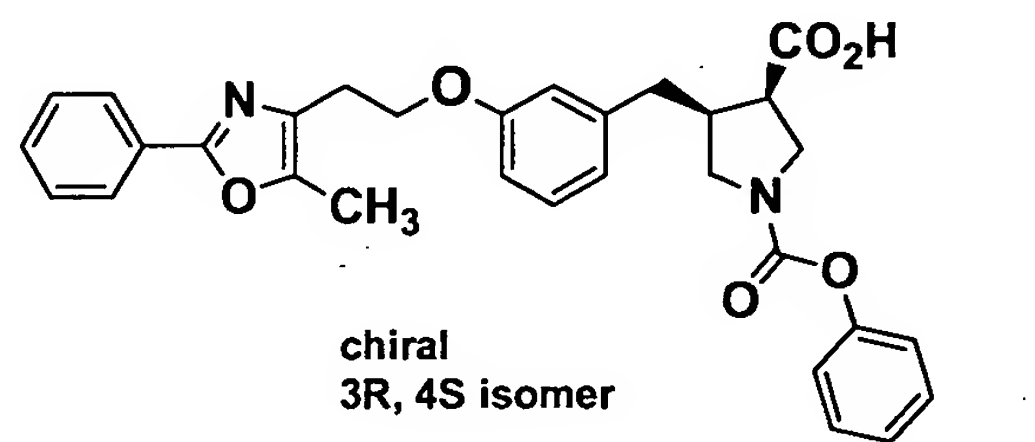
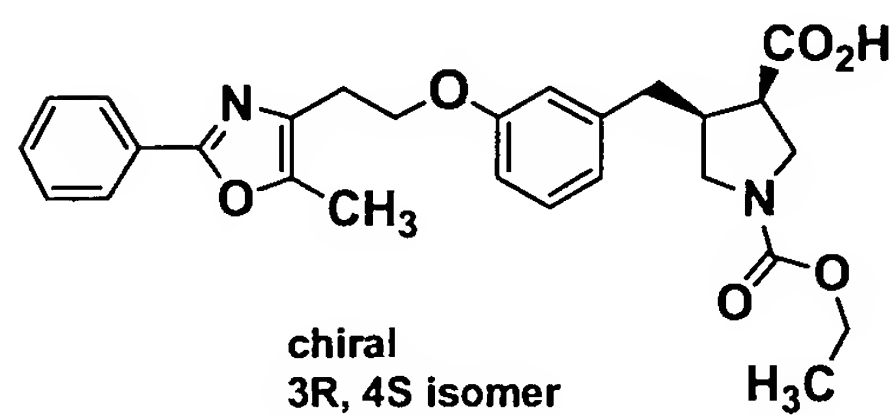
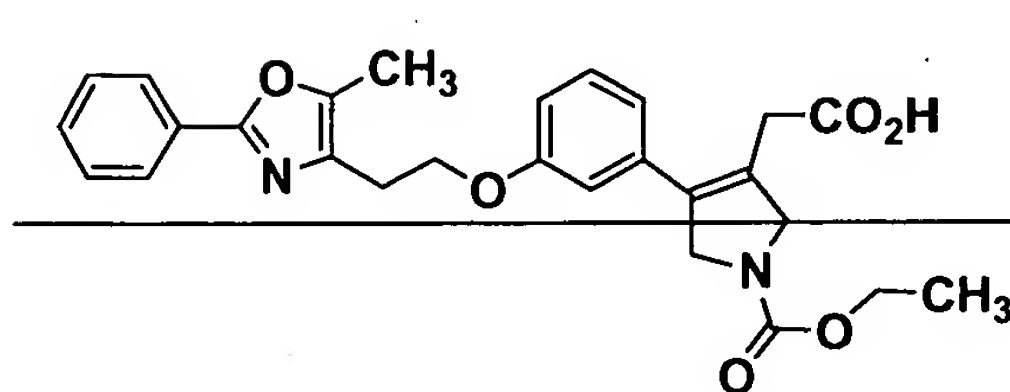
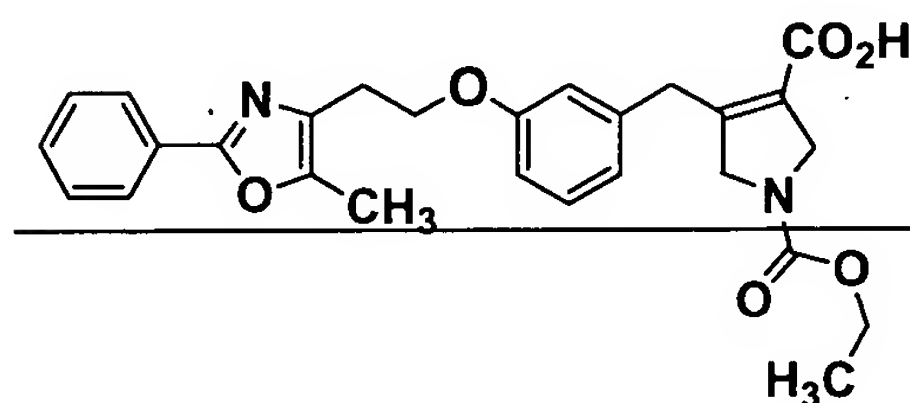
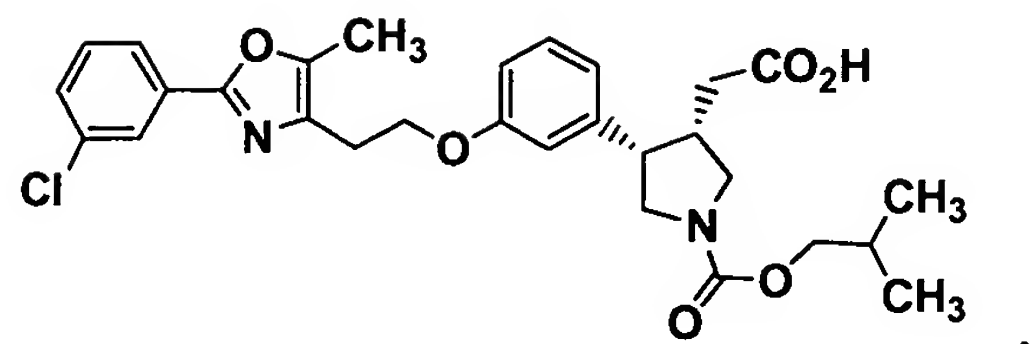
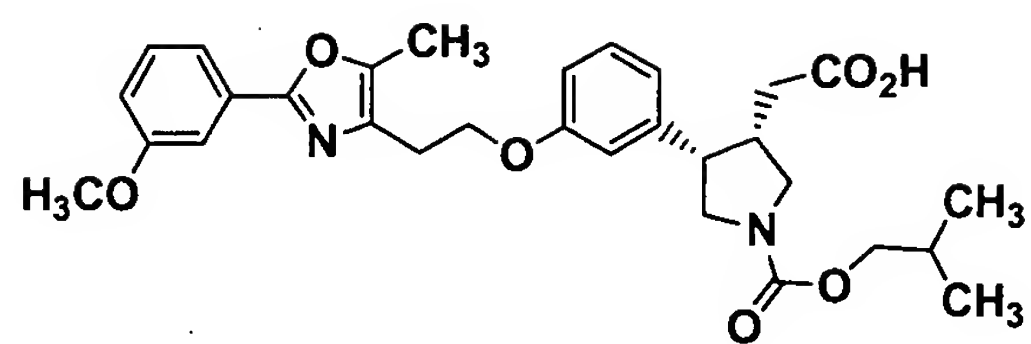
Y is CO_2R^4 ; and

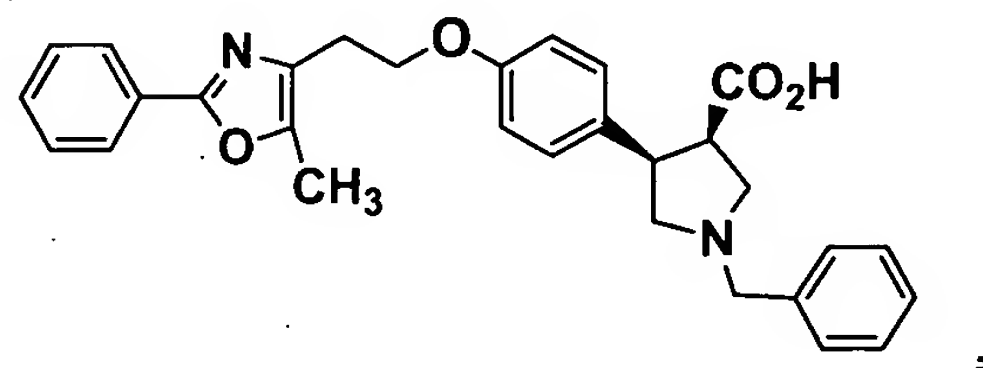
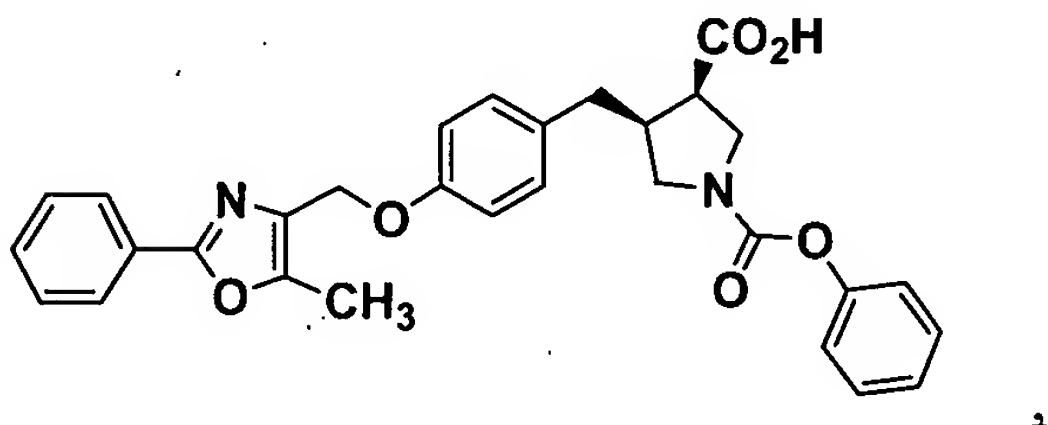
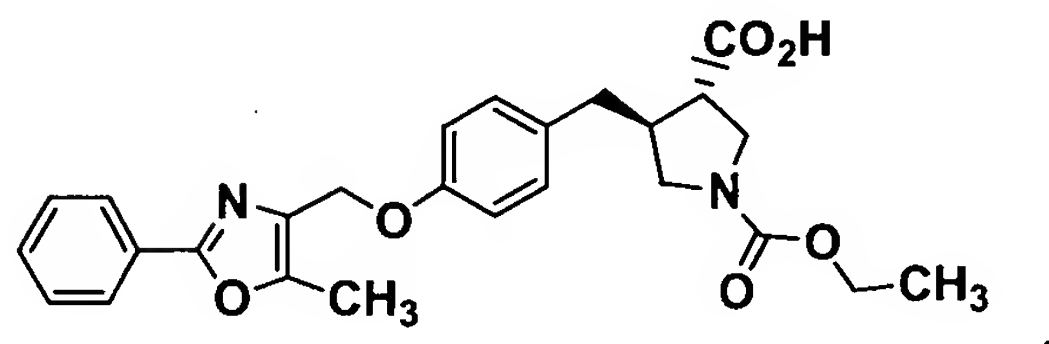
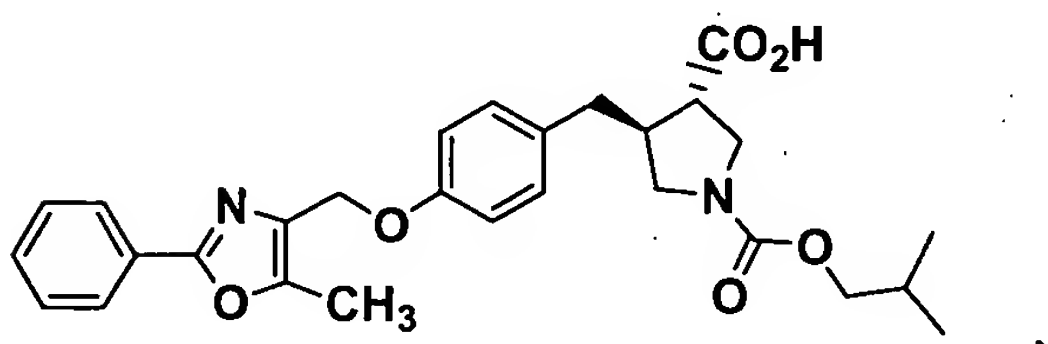
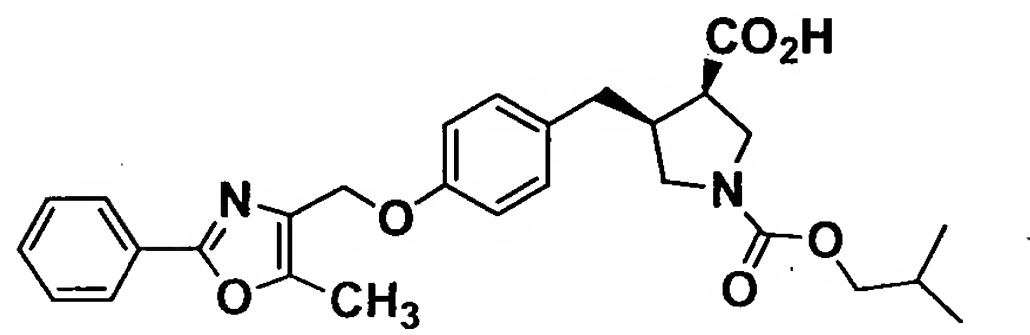
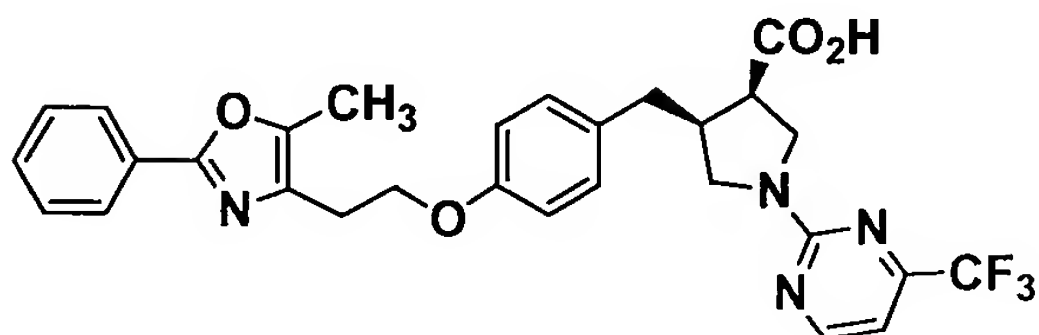
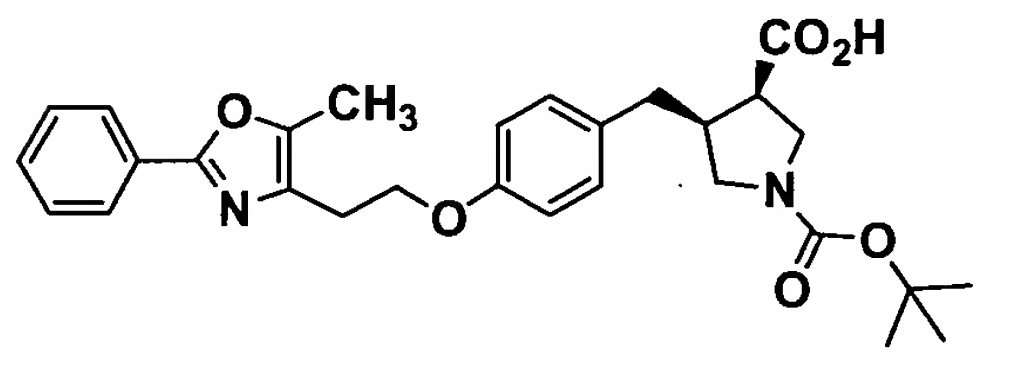
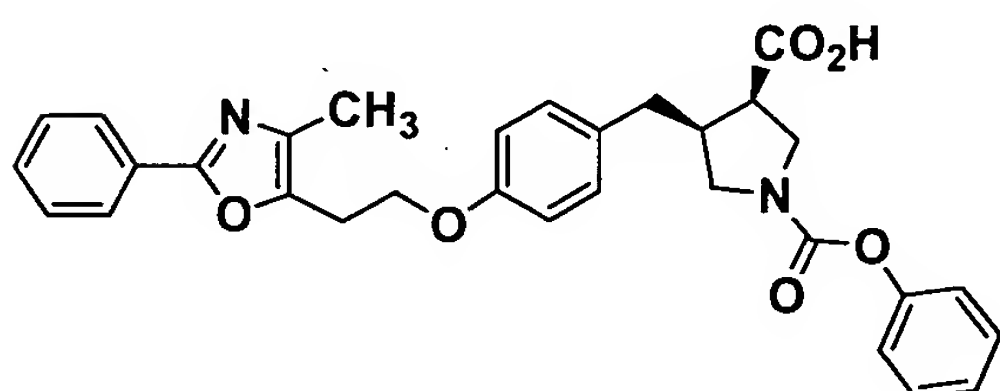
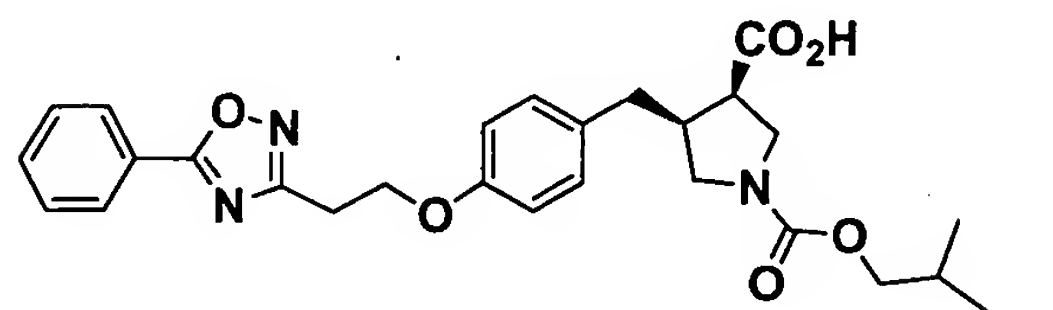
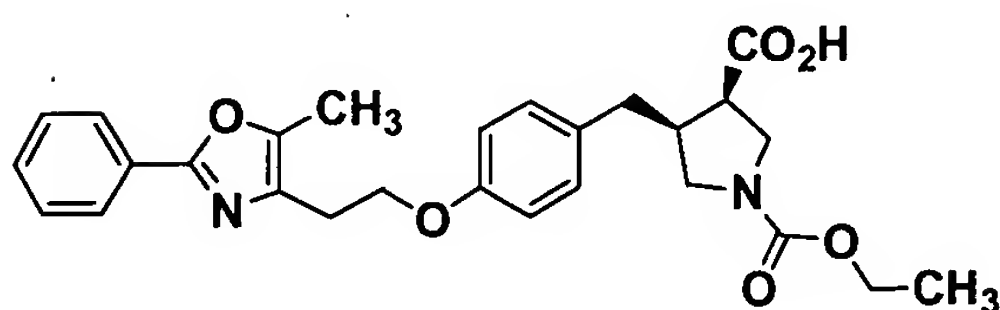
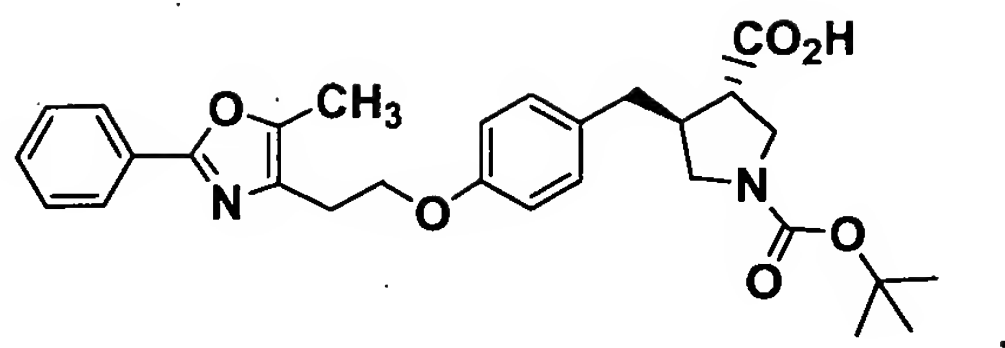
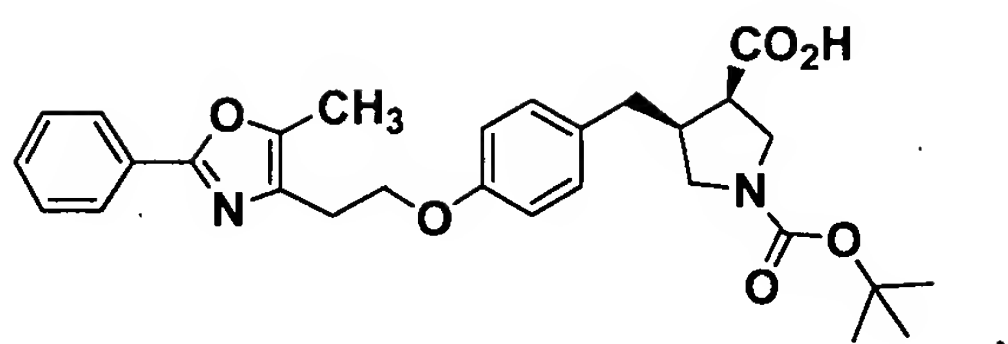
n is 0.

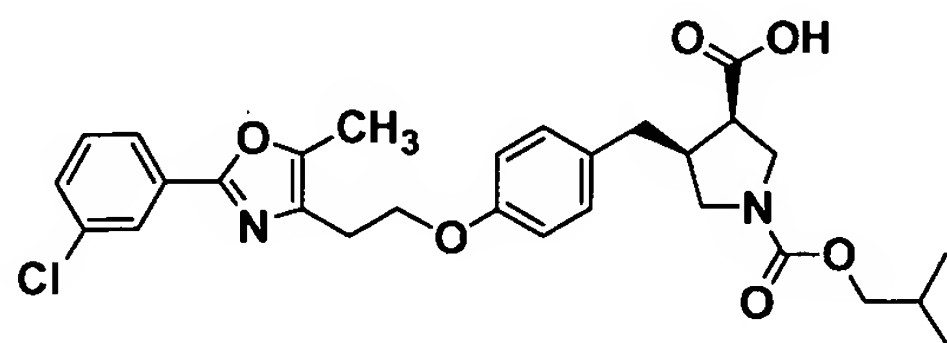
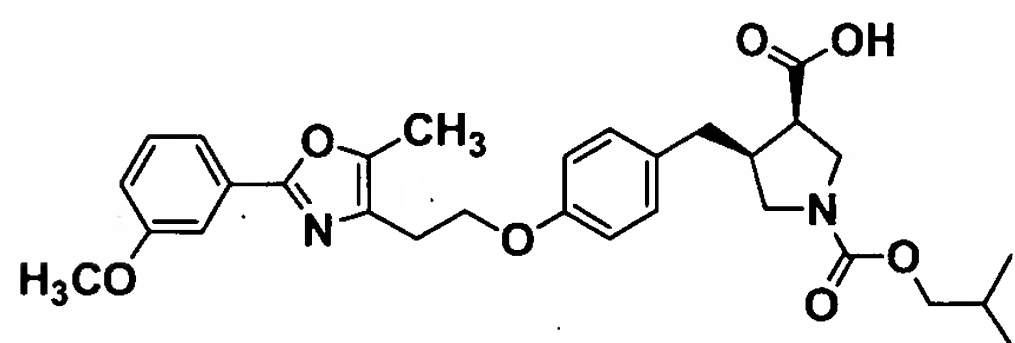
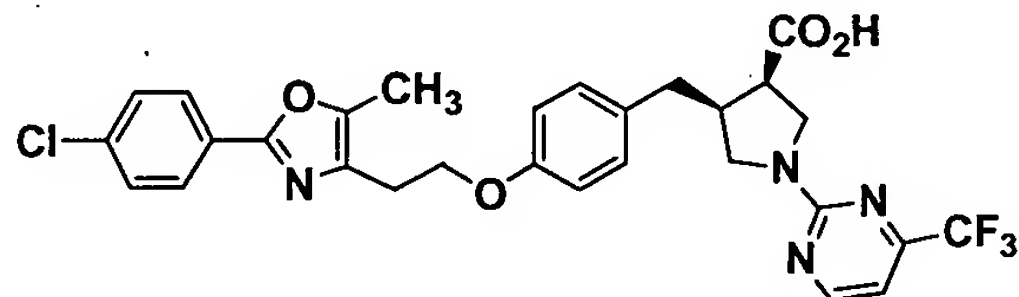
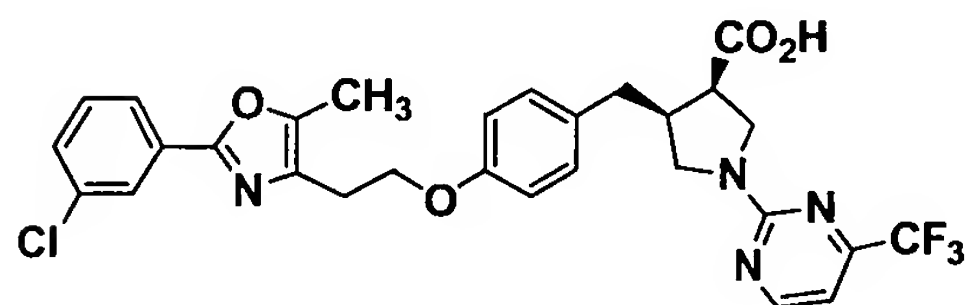
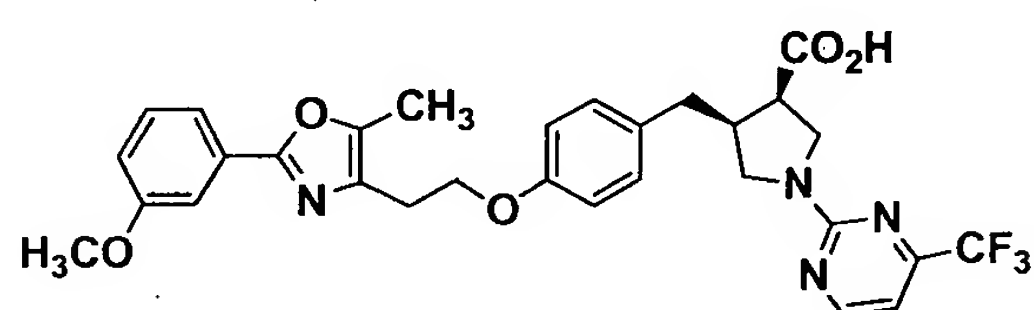
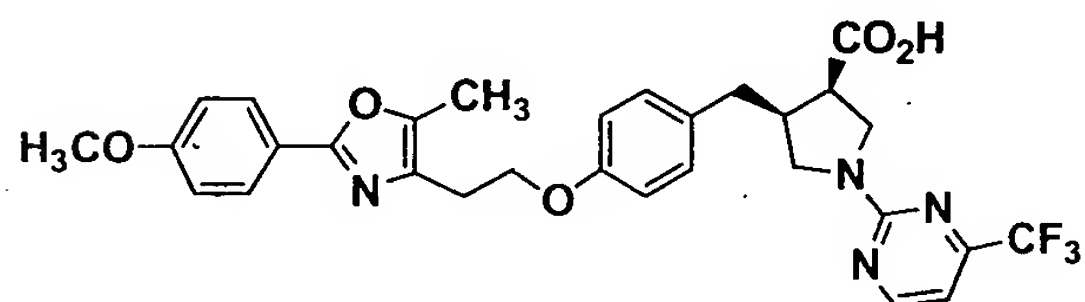
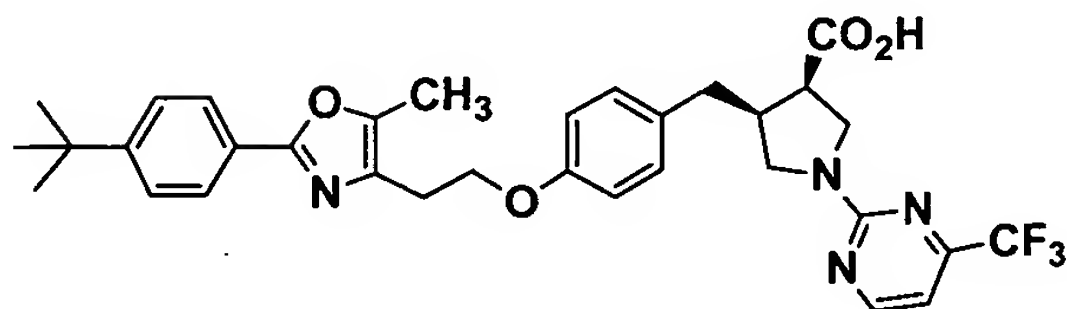
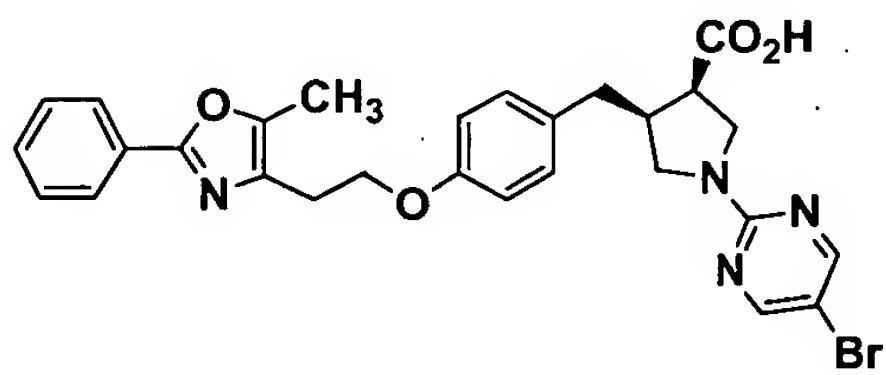
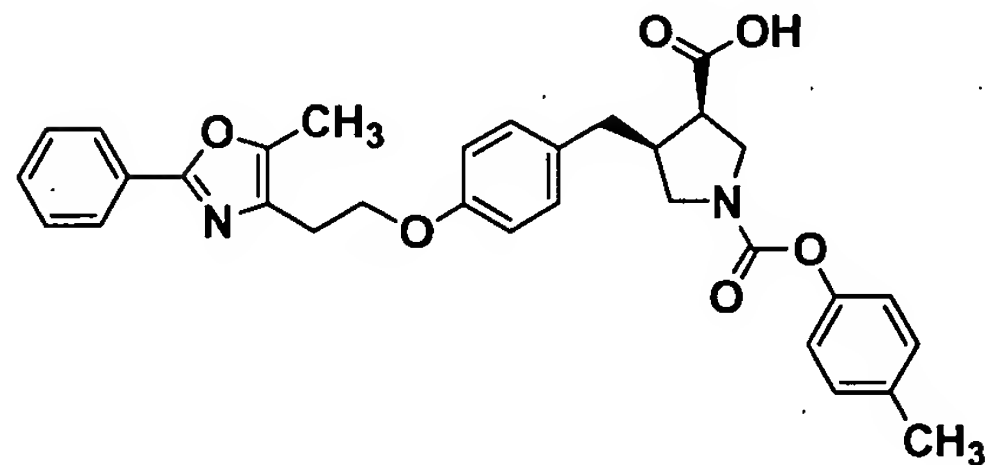
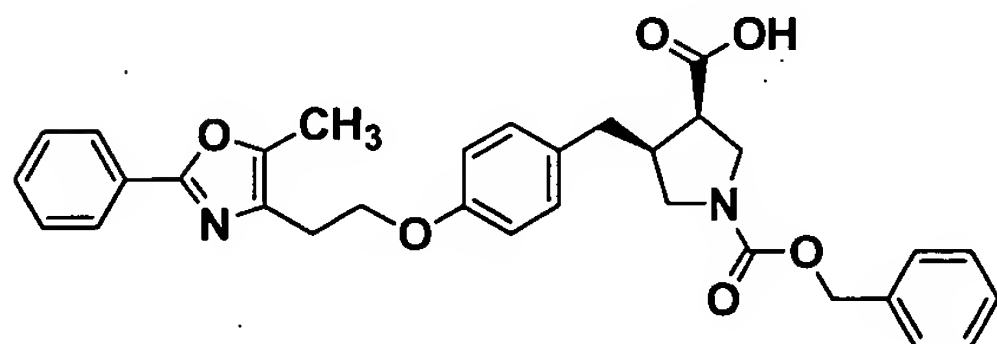
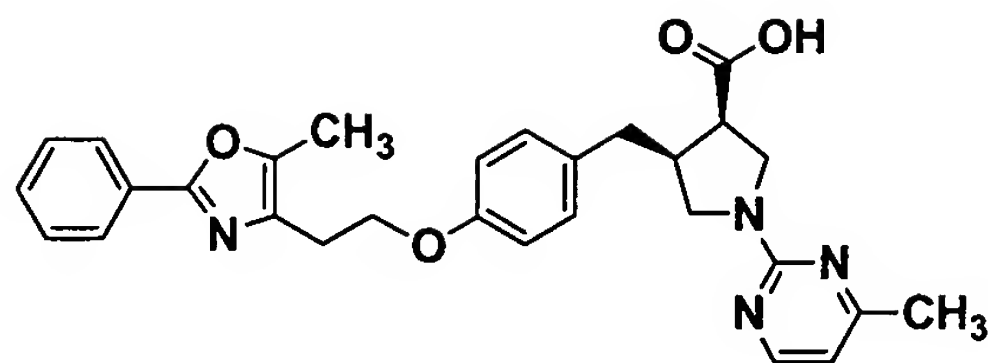
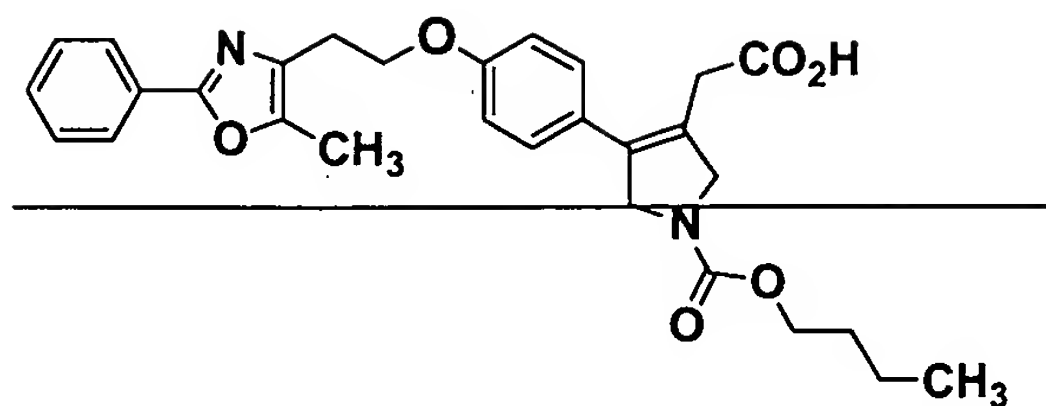
Claim 12. (Cancelled).

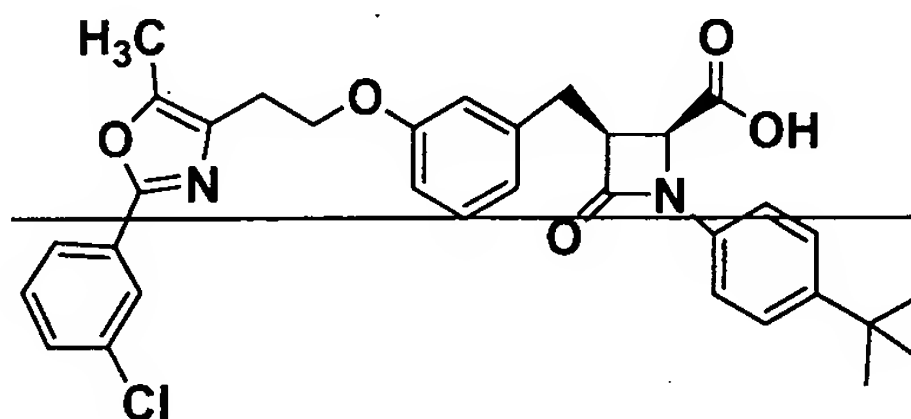
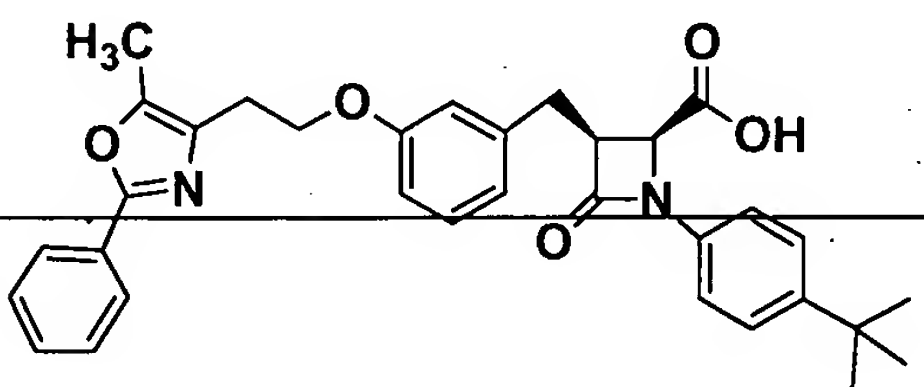
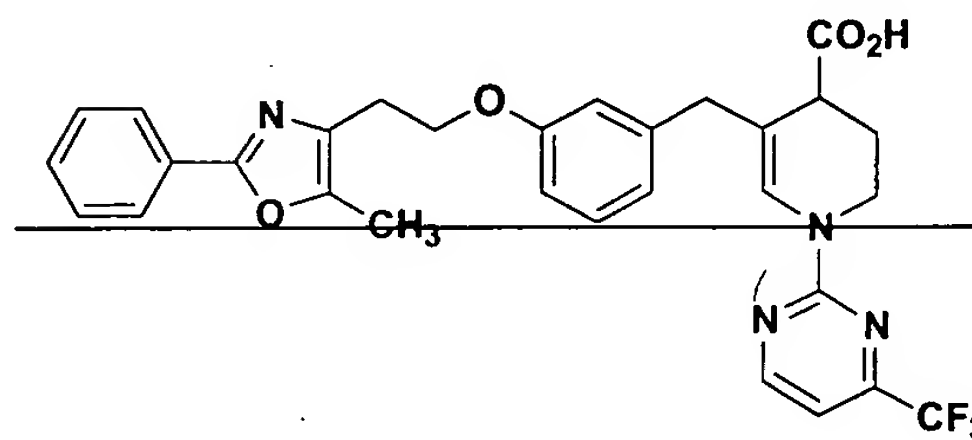
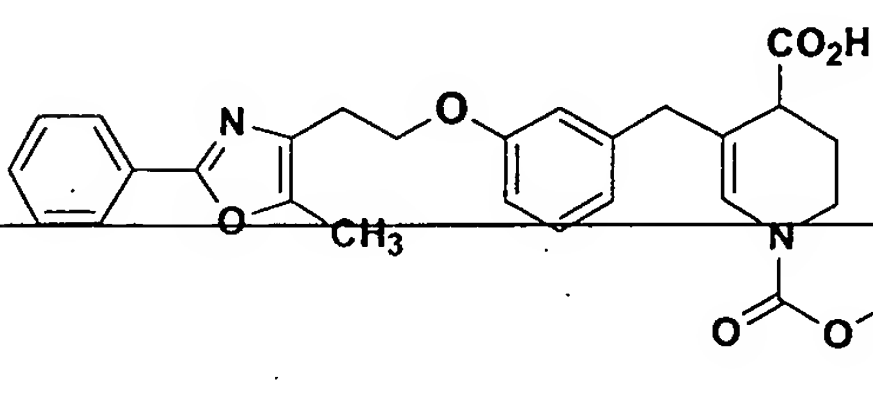
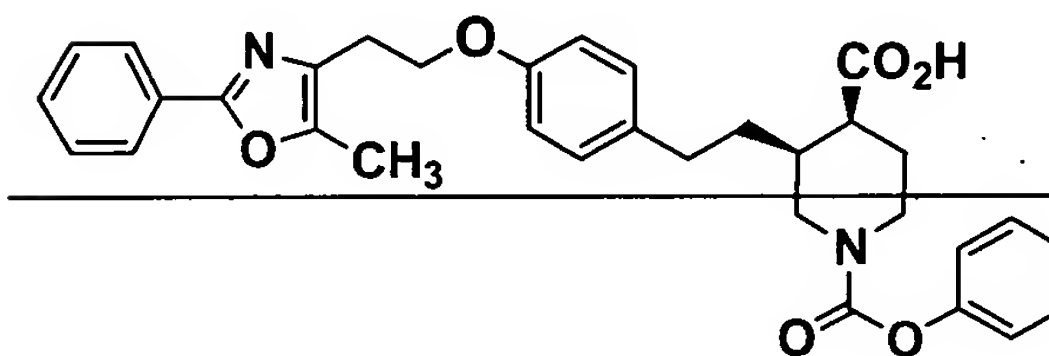
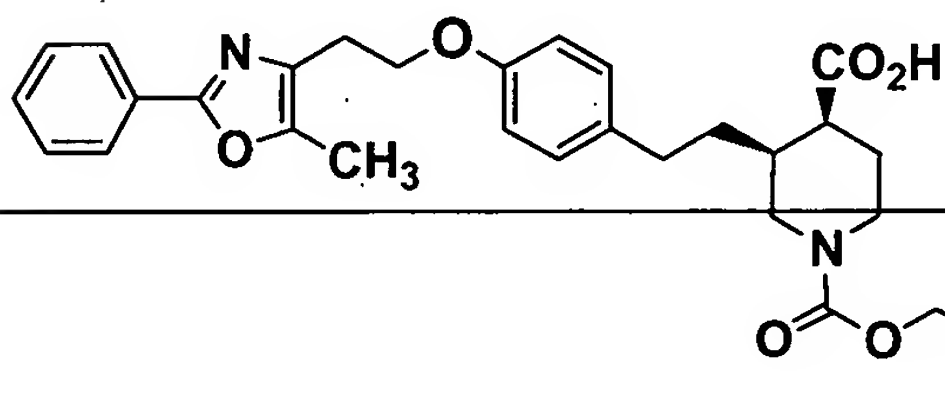
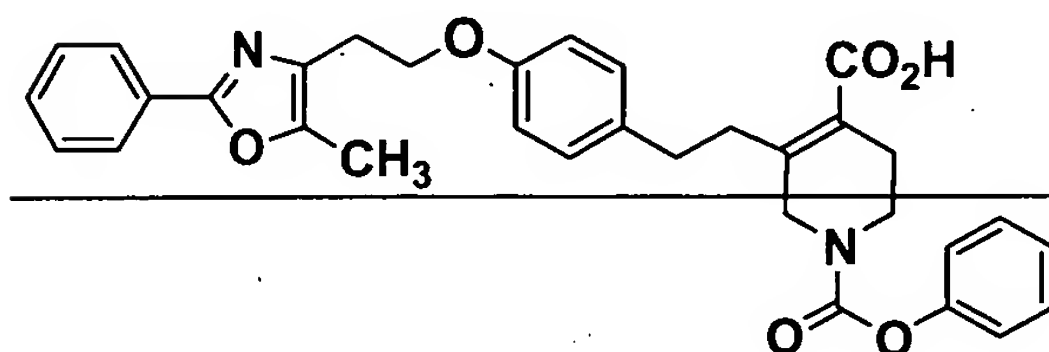
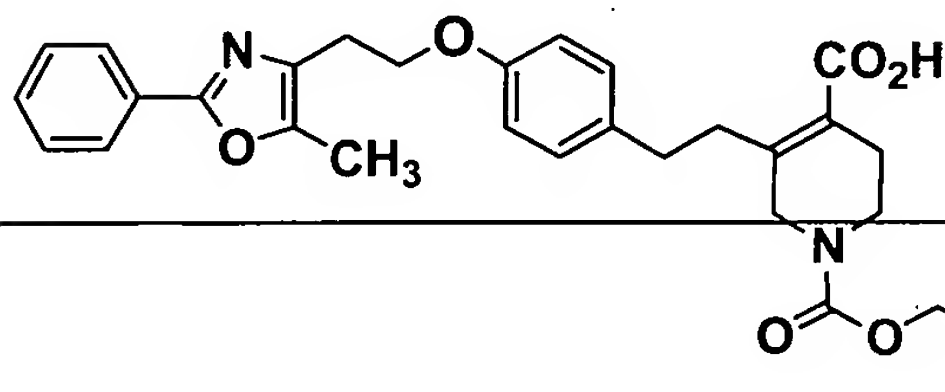
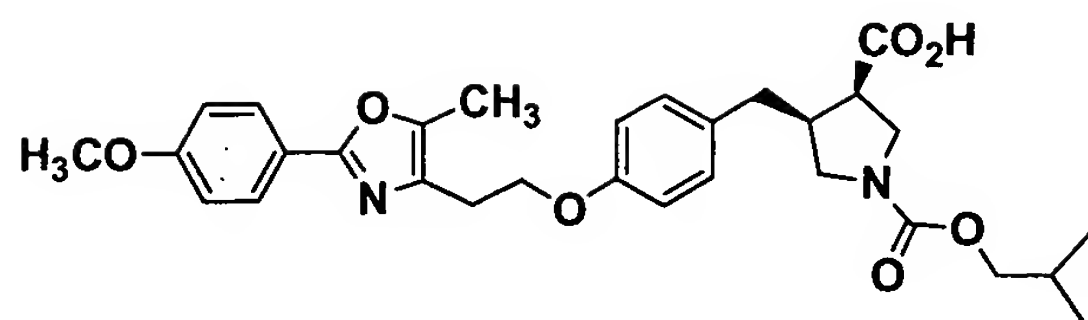
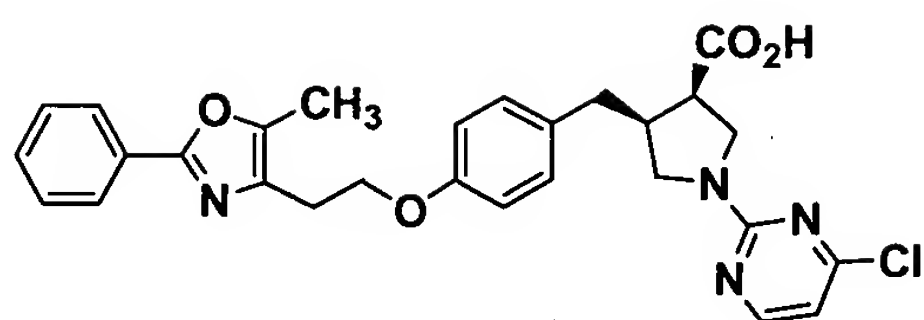
Claim 13. (Currently Amended) The compound as defined in Claim 1 selected from the group consisting of compounds having the structure

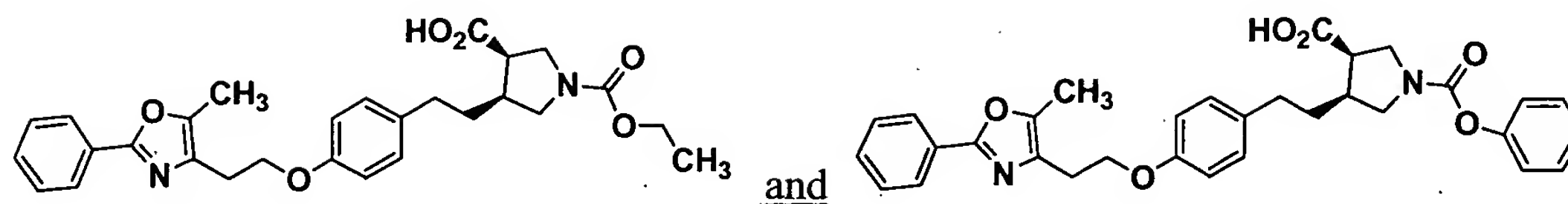












Claim 14. (Original) A pharmaceutical composition comprising a compound as defined in Claim 1 and a pharmaceutically acceptable carrier therefor.

Claim 15. (Currently Amended) A method for treating diabetes, ~~especially~~ Type 2 diabetes, ~~and related diseases such as~~ insulin resistance, hyperglycemia, hyperinsulinemia, elevated blood levels of fatty acids or glycerol, hyperlipidemia, obesity, hypertriglyceridemia, ~~inflammation~~, Syndrome X, diabetic complications, dysmetabolic syndrome, or atherosclerosis, ~~and related diseases~~, which comprises administering to a patient in need of treatment a therapeutically effective amount of a compound as defined in Claim 1.

Claim 16. (Cancelled).

Claim 17. (Withdrawn) A pharmaceutical combination comprising a compound as defined in Claim 1 and a lipid-lowering agent, a lipid modulating agent, an antidiabetic agent, an anti-obesity agent, an antihypertensive agent, a platelet aggregation inhibitor, and/or an antiosteoporosis agent.

Claim 18. (Withdrawn) The combination as defined in Claim 17 wherein the antidiabetic agent is 1, 2, 3 or more of a biguanide, a sulfonyl urea, a glucosidase inhibitor, a PPAR γ agonist, a PPAR α/γ dual agonist, an SGLT2 inhibitor, a DP4 inhibitor, an aP2 inhibitor, an insulin sensitizer, a glucagon-like peptide-1 (GLP-1), insulin and/or a meglitinide, the anti-obesity agent is a beta 3 adrenergic agonist, a lipase inhibitor, a serotonin (and dopamine) reuptake inhibitor, a thyroid receptor agonist, an aP2 inhibitor, a cannabinoid receptor-1 antagonist and/or an anorectic agent, the lipid lowering agent is an MTP inhibitor, an HMG CoA reductase inhibitor, a squalene synthetase inhibitor, a fibric acid derivative, an upregulator of LDL receptor activity, a lipoxygenase inhibitor, a farnesoid receptor (FXR) agonist, a liver X receptor (LXR) agonist, a CETP inhibitor or an ACAT

inhibitor, the antihypertensive agent is an ACE inhibitor, angiotensin II receptor antagonist, NEP/ACE inhibitor, calcium channel blocker and/or β -adrenergic blocker.

Claim 19. (Withdrawn) The combination as defined in Claim 18 wherein the antidiabetic agent is 1, 2, 3 or more of metformin, glyburide, glimepiride, glipyrider, glipizide, chlorpropamide, gliclazide, acarbose, miglitol, pioglitazone, rosiglitazone, balaglitazone, insulin, G1-262570, isaglitazone, JTT-501, NN-2344, L895645, YM-440, R-119702, AJ9677, repaglinide, nateglinide, KAD1129, AR-HO39242, GW-409544, KRP297, AZ-242, AC2993, LY315902, P32/98 and/or NVP-DPP-728A, the anti-obesity agent is orlistat, ATL-962, AJ9677, L750355, CP331648, sibutramine, topiramate, axokine, dexamphetamine, phentermine, phenylpropanolamine, rimonabant (SR-141716) and/or mazindol, the lipid lowering agent is pravastatin, lovastatin, simvastatin, atorvastatin, fluvastatin, itavastatin, visastatin, rosuvastatin, pitavastatin, fenofibrate, gemfibrozil, clofibrate, avasimibe, ezetimibe, TS-962, MD-700, cholestagel, niacin and/or LY295427, the antihypertensive agent is an ACE inhibitor which is captopril, fosinopril, enalapril, lisinopril, quinapril, benazepril, fentiapril, ramipril or moexipril; an NEP/ACE inhibitor which is omapatrilat, [S[(R*,R*)]-hexahydro-6-[(2-mercapto-1-oxo-3-phenylpropyl)amino]-2,2-dimethyl-7-oxo-1H-azepine-1-acetic acid (gemopatrilat) or CGS 30440;

an angiotensin II receptor antagonist which is irbesartan, losartan, telmisartan or valsartan;

amlodipine besylate, prazosin HCl, verapamil, nifedipine, nadolol, propranolol, carvedilol, or clonidine HCl, the platelet aggregation inhibitor is aspirin, clopidogrel, ticlopidine, dipyridamole or ifetroban.